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by conjecture. All the other ages in the Synopsis are agreeable to the bills. The laws, by which the waste of human life is governed, are to be learned from facts, not hypothesis.

*Deductions from select Bills of Mortality, by Rev. JOSEPH
McKEAN, A.A.S. President of Bowdoin College.*

THE following tables were formed from observations made in Hatfield, from March, 1772, to March, 1792; in Stow, from Jan. 1775, to Jan. 1797; in the East precinct of Barnstable, from Jan. 1786, to Jan. 1796, except 1793; in Hamilton, from Jan. 1772, to Jan. 1797; and in the first parish of Beverly, from Jan. 1785, to Jan. 1799.

Age.	Hatfield.		Stow.		Barnstable E.P.		Hamilton.		Beverly, 1st parish.	
years	No. on the bills	Ann'l decr't	No. on the bills	Ann'l decr't	No. on the bills	Ann'l decr't	No. on the bills	Ann'l decr't	No. on the bills	Annual decrement.
0	201	45	266	46	168	32	294	63	634	152
1	156	16	220	26	136	8	231	13	482	64
2	140	7	194	14	128	6	218	7	418	30
3	133	5	180	10	122	4	211	7	388	12
4	128	4	170	7	118	3	204	2	376	13
5	124	4	163	7	115	1	202	1	363	12
6	120	3	156	6	114	0	201	1	351	6
7	117	4	150	6	114	0	200	3	345	2
8	113	3	144	5	114	1	197	0	343	6
9	110	3	139	3	113	0	197	0	337	4
10	107	2	136	2	113	0	197	3	333	2
11	105	1	134	2	113	0	194	0	331	1
12	104	1	132	2	113	1	194	4	330	1
13	103	1	130	2	112	0	190	2	329	2
14	102	1	128	2	112	1	188	1	327	1

Age.	Hatfield.		Stow.		Barnstable, E. P.		Hamilton.		Beverly, 1st parish.	
years.	No. on the bills.	decre- ment.	No. on the bills.	decre- ment.	No. on the bills.	decre- ment.	No on the bills.	decre- ment.	No on the bills.	decre- ment.
15	101	1	126	2	111	1	187	4	326	2
16	100	1	124	2	110	1	183	2	324	2
17	99	2	122	3	109	2	181	5	322	6
18	97	1	119	3	107	1	176	2	316	2
19	96	2	116	3	106	1	174	0	314	4
20	94	1	113	2	105	1	174	4	310	4
21	93	1	111	2	104	1	170	0	306	3
22	92	2	109	2	103	2	170	1	303	4
23	90	1	107	2	101	1	169	2	299	8
24	89	1	105	2	100	2	167	5	291	8
25	88	1	103	2	98	1	162	2	283	7
26	87	1	101	2	97	1	160	2	276	6
27	86	1	99	2	96	1	158	6	270	6
28	85	1	97	2	95	2	152	2	264	8
29	84	1	95	3	93	2	150	1	256	11
30	83	2	92	1	91	1	149	2	245	8
31	81	1	91	1	90	1	147	1	237	6
32	80	1	90	1	89	1	146	2	231	5
33	79	1	89	1	88	1	144	1	226	2
34	78	2	88	1	87	1	143	1	224	7
35	76	0	87	1	86	0	142	3	217	4
36	76	0	86	1	86	1	139	2	213	4
37	76	1	85	2	85	1	137	1	209	9
38	75	1	83	1	84	1	136	2	200	8
39	74	0	82	1	83	1	134	1	192	5
40	74	1	81	1	82	1	133	2	187	5
41	73	1	80	1	81	2	131	0	182	5
42	72	1	79	1	79	1	131	2	177	2
43	71	0	78	1	78	1	129	1	175	2
44	71	0	77	1	77	0	128	2	173	0
45	71	0	76	1	77	0	126	6	173	1
46	71	0	75	1	77	1	120	1	172	0
47	71	1	74	2	76	2	119	3	172	7
48	70	0	72	1	74	2	116	3	165	5
49	70	1	71	1	72	1	113	2	160	7
50	69	2	70	1	71	1	111	5	153	3
51	67	2	69	2	70	2	106	2	150	4
52	65	1	67	1	68	1	104	2	146	0
53	64	2	66	1	67	2	102	1	146	4
54	62	1	65	2	65	1	101	0	142	7
55	61	1	63	1	64	2	101	3	135	3
56	60	0	62	1	62	1	98	3	132	3
57	60	1	61	1	61	2	95	0	129	4
58	59	1	60	2	59	1	95	2	125	4
59	58	1	58	1	58	2	93	2	121	1
60	57	1	57	1	56	2	91	7	120	3
61	56	1	56	1	54	2	84	1	117	2
62	55	2	55	1	52	2	83	1	115	4
63	53	2	54	1	50	2	82	7	111	3
64	51	2	53	2	48	2	75	2	108	7
65	49	2	51	1	46	2	73	2	101	2
66	47	2	50	1	44	1	71	1	99	5
67	45	2	49	1	43	1	70	4	94	4
68	44	1	48	1	42	1	66	4	90	8
69	42	2	47	1	41	1	62	1	82	4

Age.	Hatfield.		Stow.		Barnstable, E. P.		Hamilton.		Beverly, 1st parish.	
years.	No. on the bills.	decrement.	No. on the bills.	decrement.	No. on the bills.	decrement.	No. on the bills.	decrement.	No. on the bills.	decrement.
70	40	2	46	2	40	3	61	2	78	2
71	38	3	44	2	37	3	59	1	76	3
72	35	3	42	3	34	4	58	4	73	6
73	33	3	39	3	30	4	54	1	67	4
74	30	2	36	3	26	3	53	3	63	2
75	28	2	33	2	23	2	50	3	61	4
76	26	1	31	3	21	1	47	3	57	1
77	25	1	28	3	20	2	44	1	56	3
78	24	2	25	3	18	2	43	5	53	4
79	22	2	22	3	16	1	38	0	49	7
80	20	3	19	3	15	2	38	10	42	7
81	17	3	16	3	13	2	28	1	35	7
82	14	2	13	2	11	1	27	3	28	4
83	12	2	11	2	10	1	24	2	24	1
84	10	1	9	1	9	1	22	6	23	2
85	9	1	8	1	8	1	16	3	21	4
86	8	1	7	1	7	1	13	3	17	0
87	7	1	6	1	6	2	10	0	17	1
88	6	1	5	1	4	1	10	2	16	5
89	5	1	4	1	3	1	8	0	11	5
90	4	1	3	1	2	0	8	3	6	0
91	3	1	2	0	2	1	5	0	6	0
92	2	0	2	1	1	0	5	1	6	2
93	2	1	1	1	1	0	4	0	4	2
94	1	1	0	-	1	0	4	0	2	0
95	0	-	-	-	1	1	4	0	2	1
96	-	-	-	-	0	-	4	1	1	0
97	-	-	-	-	-	-	3	0	1	1
98	-	-	-	-	-	-	3	1	0	-
99	-	-	-	-	-	-	2	0	-	-
100	-	-	-	-	-	-	2	0	-	-
101	-	-	-	-	-	-	2	1	-	-
102	-	-	-	-	-	-	1	1	-	-
	6281		7338		6462		10827		17388	
	100		133		84		147		317	
20	6181	22	7205	9	6378	25	10680	14	17071	
	309		133		708		427		1219	

From the whole number of persons in each of the preceding tables, half the number that stands against 0 years is subtracted, because they do not all come into life at once, and the several remainders, being divided by the number of years, in which the observations were respectively made, would give the number of persons living in the several places of observation, if the births and deaths were equal.

The

The results are as follow,

The true numbers are,

Hatfield, . . . -	309	-	-	-	703
Stow, . . . -	327	-	-	-	830 mean.
Barnstable, E. P.	708	-	-	-	1365
Hamilton, . . -	427	-	-	-	about 900
Beverly, 1st parish,	1219	-	-	-	2561
Total, . . .	2971				6359

The true number exceeds the number deduced from the tables, in nearly the same proportion that the births exceed the deaths.

The number of deaths on these bills is 1563, and the births in the same places, and same periods of time, were about 3375.

As 1563 : 3375 :: 2990 : 6456, differing but 97 from the true number, which in a calculation of this kind is not great, as the data cannot be perfectly accurate.

The mean annual number of deaths in the preceding places of observation is nearly 98, and the births nearly 213; the natural increase therefore is 115. Now, if 2990, the number of inhabitants deduced from the tables, were the real stock, this rate of increase would be sufficient to double the number in a little more than 18 years and one third. But as the real stock of inhabitants to be doubled by this increase is 6359, the period of duplication is 38 years and 7 tenths. It hence appears that the increase of population in the old towns in

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New England is not so rapid as has been supposed. But the rates, at which even old towns are increasing, are very different; as will appear from the following table, in which the times of observation, the number of inhabitants, the annual deaths, births, increase, and periods of duplication are exhibited together.

	Time of obs.	No. inhab.	Deaths.	Births.	Increase.	Period of duplication.
Nantucket,	8 years	4620	63.62	175.	111.38	29.1 years.
Northborough,	12 $\frac{2}{3}$	550	6.55	19.58	13.03	29.6
Stow,	22	830	12.13	28.63	16.50	35.2
Beverly, 1st parish,	14	2561	45.28	95.	49.72	36.
Barnstable, E. P.	9	1365	18.66	44.44	25.78	37.
Shrewsbury,	20	963	12.15	26.75	14.60	46.
Hatfield,	20	703	10.05	20.15	10.10	48.6
Hamilton,	25	900	11.76	24.48	12.72	49.3
Newton,	10	1360	19.	38.20	19.20	49.5
		13852	199.20	472.23	273.03	

The whole number of inhabitants in these nine places is 13852, their mean annual increase is 273, and their period of duplication is 35 $\frac{1}{2}$ years.

Account of a Water Spout, in Watuppa Pond, at Freetown, in a Letter from NEHEMIAH BENNETT, Esquire, to JOHN DAVIS, Esquire.

Middleborough, Oct. 5, 1798.

DEAR SIR,

I HERE give you a description of the remarkable Water Spout, which took place in Freetown, in the County of Bristol, in a Pond called the *North Watuppa Pond*. The Pond

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